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L7: Entry 2 of 2

File: DWPI

Aug 15, 1989

DERWENT-ACC-NO: 1989-275656  
DERWENT-WEEK: 198938  
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TITLE: Detecting pieces of shells in stripped shell-fishes - converting obtd. image to electric signal and processing it

## PATENT-ASSIGNEE:

ASSIGNEE

HITACHI PLANT ENG &amp; CONSTR CO

CODE

HIEJ

PRIORITY-DATA: 1988JP-0028389 (February 9, 1988)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 01202241 A</u>	August 15, 1989		010	

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP01202241A	February 9, 1988	1988JP-0028389	

INT-CL (IPC): A22C 29/04

ABSTRACTED-PUB-NO: JP01202241A

## BASIC-ABSTRACT:

Method comprises irradiating an X-ray on the stripped shellfishes to take an image of them, converting the image into an electric signal, and processing the signal.

USE - Used for fish food prodn. facilities.

CHOSEN-DRAWING: Dwg.0/14

TITLE-TERMS: DETECT PIECE SHELL STRIP SHELL FISH CONVERT OBTAIN IMAGE ELECTRIC SIGNAL  
PROCESS

DERWENT-CLASS: D12

CPI-CODES: D02-A03; D03-K04;

## SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1989-122197

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L5: Entry 1 of 1

File: JPAB

Apr 21, 1989

PUB-NO: JP401105144A

DOCUMENT-IDENTIFIER: JP 01105144 A

TITLE: DETECTING DEVICE FOR REMAINS SHELL IN SHUCKED SHELLFISH

PUBN-DATE: April 21, 1989

## INVENTOR-INFORMATION:

NAME

COUNTRY

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KOIDE, HIDEO

FUKUZAWA, KUNIYUKI

YAMADERA, TOSHIO

## ASSIGNEE-INFORMATION:

NAME

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HITACHI PLANT ENG &amp; CONSTR CO LTD

APPL-NO: JP62263090

APPL-DATE: October 19, 1987

US-CL-CURRENT: 378/58

INT-CL (IPC): G01N 23/02

## ABSTRACT:

PURPOSE: To detect remains shell automatically in a shucked shellfish being dipped by projecting an X-ray on the shucked shellfish which is being conveyed in a flow passage by its plug flow and detecting a shell piece according to an electric signal obtained by converting the X-ray transmitted light from the shucked shellfish photoelectrically.

CONSTITUTION: The title device is provided with an X-ray tube 2 which generates a soft X-ray, a shield room 4 which seals the tube 2 electromagnetically, a transportation tube 6 for conveying a short-necked clam, etc., to be inspected by the plug flow, an X-ray sensor 8 which photodetects the X-ray transmitted light from the shucked short-necked clam, and a detection part 10 which detects remains shell according to the detected light. Then the shucked short-necked claw is conveyed to right below the tube 2 and irradiated with the soft X-ray, which is photodetected by the sensor 8; and the photodetected light is converted photoelectrically by the contact type image of the detection part 10. Further, a control part 10 processes the electric signal from a signal processing part into a specific signal, which is outputted as a detection signal to the detection part 10; when the detection signal indicates the remains shell, the shunt plate 15A of a discharging mechanism 15 is inverted and the shell, etc., are discharged from a water tank 16.

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